24(c) CHECKLIST

STATE: Washington

DATE REGISTERED: 02-06-90

SPECIFIC SPECIAL LOCAL NEED: _____

SLN No. WA-90-0001

90-DAY DATE: 5-6-90

SITE: Carrots

PEST/PROBLEM: Lygus bugs, aphids, spider mites

1. Is the State certified to issue this type of registration? Yes
2. Was the EPA Application/Notification Form submitted? Yes
3. Was all the required information included on the form? Yes
4. Was a confidential formula submitted (for new products)? No
5. Is this registration for a "CHANGED USE PATTERN"? Yes
6. Has an FR document been prepared for this "CHANGED USE PATTERN"? No

   Federal Register publication date: _____

7. Tolerances required? No Established? _____ Citation: _____
8. Full labeling being used? Y Supplemental directions? Y
9. Does label state "FOR DISTRIBUTION AND USE ONLY WITHIN (State)? Y
10. Does full label comply with 40 CFR 162.10, as follows:

    a. Product name, brand or trademark? Yes
    b. Name and address of registrant?
    c. Net contents?
    d. Product registration number?
    e. Producing establishment number?
    f. Ingredient statement?
    g. Precautionary labeling?
    h. Directions for use for special local need?
    i. Use classification?

    Was proper format followed? ✓

11. Is supplemental directions for use labeling satisfactory? Yes
12. Was supplemental labeling compared with EPA-registered label? Yes

COMMENTS: _____

CODING FORM FOR SPECIAL LOCAL NEED [24(c)] REGISTRATIONS

1. SLN No. WA90-0001 2. PM _____ 3. Action Code _____

4. State Issue Date
| 0 | 2 | 0 | 6 | 9 | 0 |

5. Date received by EPA
| 0 | 2 | 1 | 3 | 9 | 0 |

6. Date received by PM
| | | | | | |

7. Chemical name _____

8. Chemical code _____

9. Use _____

10. Reviews requested:

	Date Sent	Due Date	Date Returned	Response Code	Response Date
MED					
EFB					
RCB					
EEB					
TB					
RD					
PM					
TSS					
Precaut. Labeling					
Chemistry					
Efficacy					
_____					
_____					

11. Status _____

12. FINAL ACTION: Response code 35

Response date | 0 | 3 | 2 | 2 | 4 | 0 |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

FEB 1 6 2006

Erik W. Johansen
Special Pesticide Registration Program Coordinator
Washington State Department of Agriculture
P.O. Box 42560
Olympia, WA 98504

Subject: Special Local Need Registration (to comply with Washington State requirements)
Capture 2EC Insecticide/Miticide
EPA Registration No. 279-3069
EPA SLN No. WA890010
Your Submission Dated July 1, 2005

Dear Mr. Johansen:

This will acknowledge receipt of your notification dated July 1, 2005 to this Agency of amended registration, pursuant to section 24(c) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as follows:

Product:	Capture 2EC Insecticide/Miticide
EPA Registration No.:	279-3069
EPA SLN No.:	WA890010
24(c) Registrant:	FMC Corporation 1735 Market Street Philadelphia, PA 19103

If you have any questions, please call BeWanda Alexander of my team at (703) 305-7460.

Sincerely,

BeWanda Alexander for

George T. LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
PO Box 42560 • Olympia, Washington 98504-2560 • http://agr.wa.gov • (360) 902-1800

July 1, 2005

Document Processing Desk (SLN)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue
Washington, DC 20460

RE: EPA SLN Reg. No. WA-890010, WA-900001, WA-930005, WA-930008, WA-930009

Enclosed are revised labels for Washington Special Local Need (SLN) registration numbers WA-890010, WA-900001, WA-930005, WA-930008, WA-930009 issued to FMC Corporation for the use of Capture 2EC (EPA Reg. No. 279-3069) on various crops to control insects and mites. These registrations were issued under authority of Section 24(c) FIFRA.

These SLN labels have been revised to be consistent with WSDA requirements and the federal label for Capture 2EC.

If you have any questions, please contact me at (360) 902-2078 or by e-mail at ***ejohansen@agr.wa.gov***.

Sincerely,

PESTICIDE MANAGEMENT DIVISION

Erik W. Johansen
Special Pesticide Registration Program Coordinator

enclosure
cc: Jane Thomas, WSU
Doug Walsh, WSU
Don Johnson, FMC Corporation

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

EPA SLN NO. WA-900001

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF WASHINGTON

Capture® 2EC

Insecticide/Miticide

EPA REG. No. 279-3069

EMERGENCY CALLS: 800-331-3148

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING

Crop	Pest	Rate of Application
Carrot Grown for Seed (Hybrid or Open Pollinated)	Lygus Bugs Aphids Spider Mites	3.9 to 6.4 ounces per acre

Directions for Use:

Apply Capture 2EC at the rate of 3.9 to 6.4 ounces (0.06 to 0.1 lb. active) per acre. Apply in a minimum of 8 gallons of water per acre by air equipment or in a minimum of 20 gallons of water by ground equipment.

Restrictions / Precautions:

For use under this SLN label do not apply this product through any type of irrigation system.

Do not apply more than 6.4 ounces (0.1 lb. active) per acre per application. Do not make more than 3 applications in a crop year. Maintain a minimum of 21 days between applications. Rotational crops may be planted no sooner than 30 days after last application.

Do not apply by ground equipment within 25 feet, or by air within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

Do not cultivate within 10 feet of aquatic area so as to allow growth of a vegetative filter strip.

This pesticide is extremely toxic to fish and aquatic invertebrates. Capture 2EC should not be used under this SLN label where impact on listed threatened or endangered species is likely. You may refer to the WSDA Endangered Species Program web site at http://agr.wa.gov/PestFert/EnvResources/EndangSpecies.htm, or contact the Washington Department of Fish & Wildlife, National Marine Fisheries Service (NOAA Fisheries) or US Fish & Wildlife Service for information regarding aquatic species listed as threatened or endangered. Consult the federal label for additional restrictions and precautions to protect aquatic organisms.

FMC Corporation
Agriculture Products Group
1735 Market Street
Philadelphia, PA 19103

Capture and FMC -FMC Trademarks
©2005 FMC Corporation

All carrot seed screenings shall be disposed of in such a way that they cannot be distributed or used for human food or animal feed. The seed conditioner shall keep records of screening disposal for three years from the date of disposal and shall furnish the records to the director immediately upon request. Conditioner disposal records shall consist of documentation of on-farm disposal, disposal at a controlled dumpsite, incinerator, composter or other equivalent disposal site and shall include the lot numbers, amounts of material disposed of, the grower(s), and the date of disposal.

No portion of the carrot seed plant, including but not limited to green chop, hay, pellets, meal, whole seed, cracked seed, roots, bulbs, leaves and seed screenings may be used or distributed for food or feed purposes.

Carrot seed shall bear a tag or container label which forbids use of the seed for human consumption or animal feed.

Carrot seed may not be distributed for human consumption or animal feed.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply the 3.9 to 6.4 oz/acre (0.06 to 0.1 lb ai/acre) rate of this product to blooming carrot grown for seed: apply as a pre-bloom or post-bloom spray only. Applications of the 2 oz/acre (0.032 lb ai/acre) rate of this product to blooming carrot grown for seed must be timed to coincide with periods of minimum bee activity, between late evening and midnight.

Note: Information is provided on use of the 2 ounce rate during bloom in order to minimize the hazard to pollinators. While use of the 2 ounce rate is legal, FMC does not recommend the 2 ounce rate, since efficacy may not be as good as the full label rate. Users wishing to apply the low rate during bloom must be willing to accept reduced product efficacy, in order to protect pollinators.

WSDA Container Disposal Guidance:

Pesticide containers must be properly cleaned prior to disposal. The best time to clean empty pesticide containers is during mixing and loading, because residue can be difficult to remove after it dries. Triple rinse (or pressure rinse) the pesticide container, empty all pesticide rinse water into the spray tank, and apply to a labeled crop or site. Recycling cleaned containers is the best method of container disposal. Information regarding the recycling of empty and cleaned plastic pesticide containers in Washington is available on the internet from WSU at http://pep.wsu.edu/waste/wd.html or from WSDA at http://agr.wa.gov/PestFert/Pesticides/WastePesticide.htmT. Cleaned containers may also be disposed of in a sanitary landfill, if permitted by the county. Burning is not a legal method of container disposal in Washington.

FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS, WORKER PROTECTION STANDARD REQUIREMENTS AND PRECAUTIONS ON THE EPA REGISTERED LABEL.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION.

THIS LABEL FOR CAPTURE 2EC EXPIRES AND MUST NOT BE DISTRIBUTED OR USED IN ACCORDANCE WITH THIS SLN REGISTRATION AFTER DECEMBER 31, 2010.

FMC

FMC Corporation
Agriculture Products Group
1735 Market Street
Philadelphia, PA 19103

Capture and FMC -FMC Trademarks
©2005 FMC Corporation

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

AUG 27 1999

Mr. Joel Kangiser
Registration and Minor Crop Program Coordinator
Washington State Department of Agriculture
P.O. Box 42560
Olympia, WA 98504

Dear Mr. Kangiser:

Subject: Notification of Registration Action Under Section 24(c) for Use of Bifenthrin on:

Seed Alfalfa	EPA SLN #WA-890010
✓Carrot Seed	EPA SLN #WA-900001
Christmas Trees	EPA SLN #WA-930005
Parsley Seed	EPA SLN #WA-930008
Parsnip Seed	EPA SLN #WA-930009

Your Submissions Dated July 6, July 13, and December 15, 1998

This acknowledges receipt of your notification to this Agency of amendments to 5 labels pursuant to Section 24(c) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, as follows:

Product:	Capture 2EC
EPA Reg. No.	279-3069
24(c) Registrant	FMC Corporation 1735 Market Street Philadelphia, PA 19103

Sincerely yours,

George T. LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

7505C
LEAHY
8/27/99

Goyze Lakocca
6/10/99

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
P.O. Box 42560 • Olympia, Washington 98504-2560 • (360) 902-1800

CERTIFIED

May 21, 1999

Document Processing Desk (SLN)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

RE: EPA SLN Reg. Numbers WA-770016, 780029, 780033, 870012, 870013, 890010, 900001, 900023, 910006, 910029, 920001, 930005, 930008, 930009 and 960016

Enclosed is revised labeling for Washington Special Local Need (SLN) registration numbers WA-770016, 780029, 780033, 870012, 870013, 890010, 900001, 900023, 910006, 910029, 920001, 930005, 930008, 930009 and 960016 issued to FMC Corporation.

Product / EPA Reg. No.	*SLN No. / Crop*	*Revisions*
Thiodan 3EC, 279-2924	WA-770016, Brassica seed crops	Added aquatic toxicity statement.
Thiodan 50WP, 279-1380	WA-780029, Brassica seed crops	Added aquatic toxicity statement.
Thiodan 50WP, 279-1380	WA-780033, Apple	Added aquatic toxicity statement, revised pollinator protection statement.
Thiodan 50WP, 279-1380	WA-870012, Christmas tree plantation	Added aquatic toxicity statement, revised label format per WSDA requirements.
Thiodan 3EC, 279-2924	WA-870013, Christmas tree plantation	Added aquatic toxicity statement, revised label format per WSDA requirements.
Capture 2EC, 279-3069	WA-890010, Seed alfalfa	Added aquatic toxicity statement, revised pollinator protection statement.
Capture 2EC, 279-3069	WA-900001, Carrot seed crop	Added aquatic toxicity statement, revised pollinator protection statement.
Thiodan 3EC, 279-2924	WA-900023, Potato	Added aquatic toxicity statement.

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Furadan 4F, 279-2876	WA-910006, Potato	Revised label format per WSDA requirements.	
Thiodan 3EC, 279-2924	WA-910029, Evening primrose (export only)	Added aquatic toxicity statement, corrected minor typo.	
Thiodan 3EC, 279-2924	WA-920001, Canola	Added aquatic toxicity statement, revised pollinator protection statement.	
Capture 2EC, 279-3069	WA-930005, Christmas tree plantation	Added aquatic toxicity statement.	587 / 5567215
Capture 2EC, 279-3069	WA-930008, Parsley seed	Added aquatic toxicity statement, revised pollinator protection statement.	587 / 5567[illegible]
Capture 2EC, 279-3069	WA-930009, Parsnip seed	Added aquatic toxicity statement, revised pollinator protection statement.	587 / 5567517
Command 4EC, 279-3053	WA-960016, Cucumber	Revised label format per WSDA requirements.	

If you have any questions, please contact this office at (360) 902-2030 or by e-mail at **pestreg@agr.wa.gov**.

Sincerely,

PESTICIDE MANAGEMENT DIVISION

Joel Kangiser

Joel Kangiser
Registration & Minor Crop Program Coordinator

enclosures
cc: Dick Palmquist, FMC Corporation
Jane Thomas, WSU
Doug Walsh, WSU

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

EPA SLN NO. WA-900001

FOR DISTRIBUTION AND USE ONLY IN WASHINGTON

Capture® 2EC

Insecticide-Miticide

For Agricultural or Commercial Use Only

EPA REG. No. 279-3069

EMERGENCY CALLS: 800-331-3148

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

CROP	PEST	RATE OF APPLICATION
Carrots grown for Seed (Hybrid or Open Pollinated)	Lygus Bugs Aphids Spider Mites	3.9 to 6.4 ounces per acre

DIRECTIONS FOR USE:

To control Lygus Bugs, Aphids and Spider Mites, apply Capture 2EC at the rate of 3.9 to 6.4 ounces (0.06 to 0.1 lb. active) per acre. Apply in a minimum of 8 gallons of water per acre by air equipment or in a minimum of 20 gallons of water by ground equipment.

RESTRICTIONS:

Do not apply more than 19.2 ounces (0.3 lb. active) per acre per season.

Do not apply Capture 2EC to carrot seed through any irrigation system.

This product is very highly toxic to fish and aquatic invertebrates, and should not be used where impact on listed threatened or endangered species is likely. Contact the Washington Department of Fish & Wildlife, National Marine Fisheries Service or US Fish & Wildlife Service for information on listed threatened or endangered species (e.g. Bull trout, Chinook salmon). Consult the federal label for additional restrictions and precautions to protect aquatic organisms.

Capture 2EC is very highly toxic to fish and aquatic invertebrates. Do not apply directly or allow to drift to water or wetlands (swamps, bogs, marshes, and potholes). Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Do not graze current year's treated seed crop.

All Carrot Seed treated with Capture 2EC is to be tagged at the conditioning plant, "Not for Human or Animal Consumption". It shall be the grower's responsibility to notify the conditioning plant of any Alfalfa Seed crop treated with Capture 2EC.

Screenings and seed from seed conditioning are prohibited from feed channels. All Capture 2EC treated Carrot Seed screenings must be removed from the feed market.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply the 3.9 to 6.4 oz/acre (0.06 to 0.1 lb ai/acre) rate of this product to blooming seed crops: apply as a pre-bloom or post-bloom spray only. Applications of the 2 oz/acre (0.032 lb ai/acre) rate of this product to blooming seed crops must be timed to coincide with periods of minimum bee activity, between late evening and midnight.

Note: Information is provided on use of the 2 ounce rate during bloom in order to minimize the hazard to pollinators. While use of the 2 ounce rate is legal, FMC does not recommend the 2 ounce rate, since efficacy may not be as good as the full label rate. Users wishing to apply the low rate during bloom must be willing to accept reduced product efficacy, in order to protect pollinators.

FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS, WORKER PROTECTION STANDARD REQUIREMENTS AND PRECAUTIONS ON THE EPA REGISTERED LABEL.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

Code 777 1/99

24(c) Registrant:

FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103

FMC®

Capture and FMC - FMC Trademarks

H-3

STATE OF WASHINGTON

DEPARTMENT OF AGRICULTURE

P.O. Box 42560 • Olympia, Washington 98504-2560 • (360) 902-1800

CERTIFIED

July 6, 1998

587 | 5547277

Document Processing Desk (SLN)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
401 "M" Street SW
Washington, D.C. 20460

RE: EPA SLN Reg. Numbers WA-770016, WA-780029, WA-860012, WA-900001, WA-920001 and WA-930005

Enclosed is revised labeling for Washington Special Local Need (SLN) registration numbers WA-770016, WA-780029, WA-860012, WA-900001, WA-920001 and WA-930005 issued to FMC Corporation.

Product / EPA Reg. No.	*SLN No. / Crop*	*Revisions*
Thiodan 3EC, 279-2924	WA-770016, Brassica seed crops	Added WPS reference, added Cabbage seed (incorporated use from WA-760012), removed PPE statement, added pollinator protection statement.
Thiodan 50WP, 279-1380	WA-780029, Brassica seed crops	Added WPS reference, removed PPE statement, added pollinator protection statement.
Furadan 15G, 279-3023	WA-860012, Spinach (grown for seed)	Added WPS reference, removed PPE statement, added avian toxicity statement.
Capture 2EC, 279-3069	WA-900001, Carrots (grown for seed)	Added WPS reference, removed PPE statement, revised pollinator protection statement.
Thiodan 3EC, 279-2924	WA-920001, Canola / rapeseed	Revised WPS reference, removed PPE statement, revised pollinator protection statement.
Capture 2EC, 279-3069	WA-930005, Christmas trees	Added WPS reference and chemigation statement, added Root weevil to pest list, removed PPE statement and pollinator protection statement.

If you have any questions, please contact this office at (360) 902-2030 or by e-mail at **pestreg@agr.wa.gov**.

Sincerely,

PESTICIDE MANAGEMENT DIVISION

Joel Kangiser

Joel Kangiser
Registration & Minor Crop Program Coordinator

enclosures

cc: Dan Hopper, FMC Corporation
Jane Thomas, WSU
Catherine Daniels, WSU
Cliff Weed, WSDA, Compliance

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

EPA SLN NO. WA-900001

FOR DISTRIBUTION AND USE ONLY IN WASHINGTON

Capture® 2EC

Insecticide-Miticide

For Agricultural or Commercial Use Only

EPA REG. No. 279-3069

EMERGENCY CALLS: 800-331-3148

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

CROP	PEST	RATE OF APPLICATION
Carrots grown for Seed (Hybrid or Open Pollinated)	Lygus Bugs Aphids Spider Mites	3.9 to 6.4 ounces per acre

DIRECTIONS FOR USE:

To control Lygus Bugs, Aphids and Spider Mites, apply Capture 2EC at the rate of 3.9 to 6.4 ounces (0.06 to 0.1 lb. active) per acre. Apply in a minimum of 8 gallons of water per acre by air equipment or in a minimum of 20 gallons of water by ground equipment.

RESTRICTIONS:

Do not apply more than 19.2 ounces (0.3 lb. active) per acre per season.

Do not apply Capture 2EC to carrot seed through any irrigation system.

Capture 2EC is very highly toxic to fish and aquatic invertebrates. Do not apply directly or allow to drift to water or wetlands (swamps, bogs, marshes, and potholes). Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Do not graze current year's treated seed crop.

All Carrot Seed treated with Capture 2EC is to be tagged at the conditioning plant, "Not for Human or Animal Consumption". It shall be the grower's responsibility to notify the conditioning plant of any Alfalfa Seed crop treated with Capture 2EC.

Screenings and seed from seed conditioning are prohibited from feed channels. All Capture 2EC treated Carrot Seed screenings must be removed from the feed market.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply the 3.9 to 6.4 oz/acre (0.06 to 0.1 lb ai/acre) rate of this product to blooming seed crops: apply as a pre-bloom or post-bloom spray only. Applications of the 2 oz/acre (0.032 lb ai/acre) rate of this product to blooming seed crops must be timed to coincide with periods of minimum bee activity, between late evening and midnight.

FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS, WORKER PROTECTION STANDARD REQUIREMENTS AND PRECAUTIONS ON THE EPA REGISTERED LABEL.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

Code 777 6/98

24(c) Registrant:

FMC Corporation
Agricultural Chemical Group
1735 Market Street
Philadelphia, PA 19103

FMC®
Capture and FMC - FMC Trademarks

MAR 22 1990

585/260327
38/1

Ms. Robin Schoen
Ag. Chemical Specialist
Department of Agriculture
406 General Administration Bldg. AX-41
Olympia, WA 98504

Dear Ms. Schoen:

Subject: Registration Action under Section 24 (c)
EPA SLN No. WA90-0001

This will acknowledge receipt of your notification of February 6, 1990 to this Agency of a registration, pursuant to section 24 (c) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, as follows:

Product:	CAPTURE 2EC
EPA Registration Number:	279-3069
24 (c) Registrant:	FMC Corporation P.O. Box 1622 Walla Walla, WA 99362

We have completed an incremental risk assessment with respect to the proposed special local need use on carrots and have the following comments:

Because of the relatively large acreage to which bifenthrin may be applied, the potential for repeat applications, and the extreme toxicity of bifenthrin to aquatic organisms, this proposal represents high potential for adverse impact to non-target species. Please refer to the enclosed incremental risk review regarding the basis for this determination.

In order to complete a risk assessment (for aquatic organisms) for all registered and pending uses, the following data have been required:

1. An aquatic invertebrate life-cycle test.

2. A finfish life-cycle (reproduction) toxicity test.

3. Simulated (mesocosm) and/or actual aquatic field study.

This data has been received and is currently under review. Until the Agency completes its review it cannot determine the actual impact of additional uses of bifenthrin on aquatic life forms nor approve such uses for Section 3 registrations at this time.

LeMaster 3/22/90

If the State maintains the subject SLN, we would be interested in your Department's assessment of our concerns with respect to potential environmental hazard to aquatic organisms and any preventative/remedial measures taken to minimize exposure.

If you have any questions in regard to this letter, please feel free to contact me.

Sincerely,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

cc: Jeff R. Klundt
FMC Corporation
P.O. Box 1622
Walla Walla, WA 99362

Enclosure

260327
Record No.

Review No.

128825
Shaughnessey No.

EEB REVIEW

DATE: IN 3-1-9 OUT 3-16-90

FILE OR REG. NO. WA 90-0001

PETITION OR EXP. NO.

DATE OF SUBMISSION 12-13-90

DATE RECEIVED BY EFED 02-28-90

RD REQUESTED COMPLETION DATA 3-28-90

EEB ESTIMATED COMPLETION DATE 3-28-90

RD ACTION CODE/TYPE OF REVIEW 585

TYPE PRODUCTS(S): I, D, H, F, N, R, S Insecticide

DATA ACCESSION NO(S).

PRODUCT MANAGER NO. G. LaRocca (15)

PRODUCT NAME(S) Capture 2 EC

COMPANY NAME Washington Department of Agriculture

SUBMISSION PURPOSE Sec 24(c) - incremental risk for use on carrots grown for seed

SHAUGHNESSEY NO.	CHEMICAL AND FORMULATION	% A.I.
	Bifenthrin	

ECOLOGICAL EFFECTS BRANCH REVIEW

100.1 SUBMISSION PURPOSE AND PESTICIDE USE

The Washington Department of Agriculture has requested an SLN [Section 24 (c)] registration for the use of Capture 2 EC (bifenthrin) on carrots produced for seed.

100.2 FORMULATION INFORMATION (excerpted from label)

Active Ingredient:
Bifenthrin, (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate.....25.1%
Inert Ingredients 74.9%

100.3 APPLICATION METHODS, DIRECTIONS, RATES (excerpted from submission request)

Apply Capture 2 EC at the rate of 3.9 to 6.4 ounces per acre (0.06 to 0.1 pound active ingredient). Apply in a minimum of 8 gallons of water per acre by air or in a minimum of 20 gallons of water per acre by ground.

Capture 2 EC may be used only in the prebloom or post-bloom period. Bees, used for pollination, should not be introduced into the field within 5 days of the prebloom application. Bees, used for pollination, must be removed from the field before a post-bloom application is made.

Do not apply Capture 2 EC or allow it to drift to blooming crops or weeds while bees are actively foraging in the treatment area.

No statement indicating need for or limiting repeat applications is made. This could allow an unlimited number of treatments.

100.4 TARGET ORGANISMS

Lygus bugs, aphids , and spider mites.

101.0 HAZARD ASSESSMENT

101.1 DISCUSSION

In 1985, 4329 acres of carrots were grown for seed in the state of Washington (Robin Schoen, 206-753-5064). The majority of these acres were in the counties of Skagit and Whatcom (coastal) and Grant and Franklin (east of the Sierra Nevada Mountains).

101.2 EFFECTS ON NON-TARGET SPECIES

Terrestrial Species

Bifenthrin is characterized as slightly toxic to birds on an acute oral basis (bobwhite quail LD_{50} =1,800 mg/kg, mallard duck LD_{50} >2,150 mg/kg.) The dietary LC_{50}s for the bobwhite quail and mallard duck are 4,450 and 1,280 ppm respectively. Bobwhite reproduction was not affected at concentrations $\leq$ 75 ppm; however, an increased incidence of egg breakage was noted at 50 and 75 ppm.

Bifenthrin technical is highly to moderately toxic on an acute oral basis to rats (LD_{50} = 54.1 mg/kg). Buikema in an earlier rewiew estimated the LC_{50} for rats to be 545 ppm. Bifenthrin is toxic to honey bees only if directly applied. Foraging bees apparently avoid plants treated with the chemical.

Maximum expected residues in the terrestrial environment following application at 0.1 lb a.i./acre would range from 0.7 ppm on fruit to 24 ppm on shortgrass. These values are well below trigger values for hazard to non-endangered terrestrial organisms. and the proposed use is not expected to present an acute or chronic hazard to these forms.

Bifenthrin has a very high > 1 x 10^6 octanol/water partition coefficient and thus a high potential for bioaccumulation. Because the proposal makes no mention about repeat applications it is impossible to determine if bioaccumulation may be a problem when bifenthrin is used on carrots.

Aquatic Species

Aquatic organisms are especially sensitive to bifenthrin and mortality has been demonstrated in both field and laboratory studies. Touart, in an earlier rewiew (12-28-88), reported that a SWRRS-EXAMS model calculation predicted concentrations of 0.004 ppb in the water and 16.7 ppb on water-borne sediment particles. The predicted concentration in water greatly exceeds levels demonstrated to be toxic to freshwater invertebrates in laboratory tests (e.g., LEL $\leq$ 0.00095 ppb for *Daphnia magna* in a life-cycle test) and is equivalent to the 96-hour LC_{50} for an estuarine invertebrate (e.g., LC_{50} = 0.00397 ppb for the mysid shrimp). Spray drift is expected to contribute even greater input into aquatic habitats. Drift that results in direct exposure to six feet of water will result in concentrations as high as 6.1 ppb. Even a slight amount of drift settling on aquatic habitats will exceed the hazard criteria of 1/2 the LC_{50} for finfish (e.g., rainbow trout LC_{50} of 0.10 ppb). Thus, the use of bifenthrin on seed carrots would be expected to adversely impact non-target aquatic species.

A problem with bifenthrin is that there is no fully validated method to measure very low concentrations in the environment. Because concentrations that may cause adverse effects to aquatic organisms cannot be measured, efforts by EEB to confirm cause-and-effect relationships will be hindered.

101.3 ENDANGERED SPECIES CONSIDERATION

The only threatened or endangered arthropod in Washington is the Oregon silverspot butterfly found in Pacific County. Little, if any, acreage in Pacific County is used for the production of seed carrots. This proposal should not affect the butterfly. All remaining threatened or endangered animals are either mammals or birds and, because of relatively low toxicity to these groups, the use of bifenthrin should pose little potential for adverse effects.

101.4 ADEQUACY OF THE TOXICITY DATA

The available toxicity database was adequate to conduct a hazard assessment for this registration request.

101.5 ADEQUACY OF LABELING

EEB is providing the following statements for incorporation into labeling:

> "This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate."

102 CONCLUSIONS

EEB has evaluated this proposed Section 24 (c) registration for the use of Capture 2 EC on carrots grown for seed in the state of Washington. It is concluded that, because of the relatively large acreage to which bifenthrin may be applied and the extreme toxicity of bifenthrin to aquatic organism, this proposal represents high potential for adverse impact to non-target species.

Clyde R. Houseknecht, Biologist
Ecological Effects Branch
Environmental Fate and Effects Division

Clyde R. Houseknecht 3/12/90

Henry T. Craven, Head, Section 4
Ecological Effects Branch
Environmental Fate and Effects Division

Henry T. Craven 3/12/90

James W. Akerman, Chief
Ecological Effects Branch
Environmental Fate and Effects Division

James W. Akerman 3/13/90

Use this form for individual studies & to submit pesticide applications.

United States Environmental Protection Agency
Office of Pesticide Programs
Washington, DC 20460

EPA

Data Review Record

Confidential Business Information - Does not contain National Security Information (E.O. 12065)

Pack Number	Date Received

1. Product Name: CAPTORE 2 EC

Chemical Name: Bifenthrin

2. Identifying Number	3. Record Number	4. Action Code	5. MRID/ Accession Number	6. Study Guideline or Narrative
WA 90-0001	260327	585		

7. Reference No.	8. Date Rec'd (EPA)	9. Prod/Review Mgr/DCI	10. PM/RM Team No.	11. Date to HED/ EFED/RD/BEAD	12. Proj Return Date	13. Date Returned to RD/SRRD
1	2/13/90	LaRocca/02	15	2/28/90	3/28/90	

Instructions: Please conduct incremental risk assessment for use as bifenthrin on carrots grown for seed under Sec 24(c)

This Section Applies to Review of Studies Only

14. Check Applicable Box

- [ ] Adverse 6(a)(2) Data (405)
- [ ] Special Review Data (870)
- [ ] Generic Data (Reregistration)(660)
- [ ] Product Specific Data (Reregistration)(655)

15. No. of Individual Studies Submitted

16. Have any of the above studies *(in whole or in part)* been previously submitted for review?

- [ ] Yes *(Please identify the study(ies))*
- [ ] No

17. Related Actions

18.	To	Type of Review	19. Reviews Also Sent to	
HED		Science Analysis & Coordination	SAC	PC
		Toxicology/HFA	TOX/HFA	PL
		Toxicology/IR	TOX/IR	
		Dietary Exposure	X DEB	EA
		Nondietary Exposure	NDE	AC
EFED	X	Ecological Effects		BA
		Environmental Fate & Groundwater	EEB	
SRRD		Special Review	EFGWB	
		Reregistration		
		Generic Chemical Support	SR	
RD		Insecticide-Rodenticide	RER	
		Fungicide-Herbicide	GSC	
		Antimicrobial		
		Product Chemistry	IR	
		Precautionary Labeling	FH	
BEAD		Economic Analysis	AM	
		Analytical Chemistry		
		Biological Analysis		

20. Data Review Criteria

A. Policy Note No. 31

- [ ] 1 = data which meet 6(a)(2) or meet 3(c)(2)(B) flagging criteria
- [ ] 2 = data of particular concern from registration standard
- [ ] 3 = data necessary to determine tiered testing requirements

B. Section 18

- [ ] 1 = data in support of section 3 in lieu of section 18

C. Inert Ingredients

- [ ] 1 = data in support of continued use of List 1 inert

- [X] Confidential Statement of Formula (EPA Form 8570-4) Attached *(Trade Secrets)*
- [X] Label Attached

Use this form for individual studies & to submit pesticide applications.

United States Environmental Protection Agency
Office of Pesticide Programs
Washington, DC 20460

EPA

Data Review Record

Confidential Business Information - Does not contain National Security Information (E.O. 12065)

Pack Number	Date Received

1. Product Name: CAPTURE 2 EC

Chemical Name: Bifenthrin

2. Identifying Number	3. Record Number	4. Action Code	5. MRID/ Accession Number	6. Study Guideline or Narrative
WA 90-0001	260327	585		

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1	02/13/90	LaRocca/02	15	2/28/90	3/28/90	

Instructions

There are no tolerances for bifenthrin on carrots. Washington via 24(c) is recommending use of bifenthrin on carrots grown for seed. Is labeling adequate to consider this a non-food use.

This Section Applies to Review of Studies Only

14. Check Applicable Box

- [ ] Adverse 6(a)(2) Data (405)
- [ ] Special Review Data (870)
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		Toxicology/HFA	TOX/HFA	PL
		Toxicology/IR	TOX/IR	
	X	Dietary Exposure	DEB	EA
		Nondietary Exposure	NDE	AC
EFED		Ecological Effects		BA
		Environmental Fate & Groundwater	X EEB	
SRRD		Special Review	EFGWB	
		Reregistration		
		Generic Chemical Support	SR	
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Use this form for individual studies & to submit pesticide applications.

3/5/90 MB 463F

United States Environmental Protection Agency
Office of Pesticide Programs
Washington, DC 20460

EPA

Data Review Record

Confidential Business Information - Does not contain National Security Information (E.O. 12065)

Pack Number	Date Received
0-0799	3/1/90

1. Product Name	Chemical Name
CAPTURE 2 EC	Bifenthrin

2. Identifying Number	3. Record Number	4. Action Code	5. MRID/ Accession Number	6. Study Guideline or Narrative
WA 90-0001	260 327	585		

7. Reference No.	8. Date Rec'd (EPA)	9. Prod/Review Mgr/DCI	10. PM/RM Team No.	11. Date to HED/ EFED/RD/BEAD	12. Proj Return Date	13. Date Returned to RD/SRRD
1	02/13/90	LaRocca/02	15	2/28/90	3/28/90	3/13/90

Instructions

There are no tolerances for bifenthrin on carrots. Washington via 24(c) is recommending use of bifenthrin on carrots grown for seed. Is labeling adequate to consider this a non-food use.

6424

This Section Applies to Review of Studies Only

14. Check Applicable Box

- [ ] Adverse 6(a)(2) Data (405)
- [ ] Special Review Data (870)
- [ ] Generic Data (Reregistration)(660)
- [ ] Product Specific Data (Reregistration)(655)

15. No. of Individual Studies Submitted

16. Have any of the above studies *(in whole or in part)* been previously submitted for review?

- [ ] Yes *(Please identify the study(ies))*
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		Toxicology/IR	TOX/IR	
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		Environmental Fate & Groundwater	X EEB	
SRRD		Special Review	EFGWB	
		Reregistration		
		Generic Chemical Support	SR	
RD		Insecticide-Rodenticide	RER	
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		Antimicrobial		
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- [X] Label Attached

EPA Form 8570-17 (Rev. 11-88)
Previous editions are obsolete.

White - Data Coordinator
Yellow - Data Review Section
Pink - PM/RM/DCI
Green - Return with completed review

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 13 1990

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: WA90-0001. Section 24(c) for the use of Bifenthrin (Capture ® 2 EC) on Carrots grown for Seed. EPA Reg. No. 279-3069. (No MRID #, DEB # 6424).

From: Freshteh Toghrol Ph.D., Chemist F. Toghrol
Special Registration Section II
Dietary Exposure Branch
Health Effects Division (H7509C)

THRU: Francis B. Suhre, Section Head Francis B. Suhre
Special Registration Section II
Dietary Exposure Branch
Health Effects Division (H7509C)

To: G. LaRocca, PM 15
Registration Support Branch
Registration Division (H7505C)

The Washington Department of Agriculture, has issued a Section 24(c) registration for the use of bifenthrin (trade name: Capture® 2 EC) Insecticide/Miticide on carrots to control lygus, bugs, aphids and spider.

Capture® 2 EC (EPA Reg. No. 279-3069) is a registered pesticide of FMC Corporation; the product contains 25.1% wettable bifenthrin [2-methyl (1,1'-biphenyl)-3-yl]methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate (minimum 97% Cis, maximum 3% trans isomers) as its active ingredient.

Tolerances to expire 10/21/1992, are established (40 CFR, 180.442) for residues of bifenthrin on cottonseed at 0.5 ppm;

meat, fat, and meat byproducts of cattle, goat, hogs, horses and sheep at 0.1 ppm and milk at 0.02 ppm.

WA 90-0001 use

WA 90-0001 calls for the applications of 3.9 to 6.4 oz of Capture 2 EC (0.06-0.1 lb ai)/A, by ground or air application. Apply in a minimum of 8 gallons of water/A by air or in a minimum of 20 gallons of water /A by ground. Capture 2 EC may be used only in the prebloom or post-bloom period. Bees, used for pollination, should not be introduced in the field within 5 days of the prebloom application. Bees, used for pollination, must be removed from the field before a post-bloom application is made. Do not apply Capture 2 EC or allow it to drift to blooming crops or weeds while bees are actively foraging in the treatment area. Do not graze current year's treated seed crop. All carrot seed treated with Capture 2 EC is to be tagged at the conditioning plant " Not for Human or Animal Consumption". It shall be the growers responsibility to notify the conditioning plant of any seed crop treated with Capture 2 EC. Screening and seed from seed conditioning are prohibited from feed channels. All Capture 2 EC treated seed screening must be removed from the feed market.

No residue data were submitted with this Section 24(c), nor are residue data available in our file to support this use. Carrots are a biennial plant, requiring two seasons to produce seeds.

The Agency has previously determined (DEB Non-food use file, 5/31/85, and D. Campt, 11/29/85) that the treatment of carrots grown for seed is a non-food use provided adequate restrictions are in place to assure that the crop is not diverted for human or animal consumption in the first year.

Conclusion and Recommendation:

We have no objection to this Section 24(c) registration.

cc:bifenthrin S.F., R.F., 24(c) file, Circ., F. Toghrol, PMSD/ISB.
RDI: F. B. Suhre, Section Head (3/12/90): E. Zager, Deputy Branch Chief (3/12/90):
H7509C:DEB:F.Toghrol:F.T.:RM:802:CM#2:557-7887:3/13/90.

C. ALAN PETTIBONE
Director

STATE OF WASHINGTON

DEPARTMENT OF AGRICULTURE

406 General Administration Bldg., AX-41 • Olympia, Washington 98504-0641 • (206) 753-5063

CERTIFIED

January 23, 1990

Environmental Protection Agency
Process Coordination Section
Registration Division (TS-767)
401 "M" Street S.W.
Washington, D.C. 20460

RE: EPA SLN REG. NO. WA90001

Enclosed is Washington Special Local Need registration number WA90001 issued to FMC Corporation for the use of Capture 2 EC in carrot varieties grown for seed. This registration was issued under authority of Section 24(c) of amended FIFRA.

This product extends the options available for lygus and mite control in a minor use crop. Carrot seed and carrot seed screenings are prohibited from food or feed use in Washington State.

I have enclosed a letter from Douglas Campt to Art Losey in which EPA considers the seed uses on carrots acceptable as a non-food use under 24(c) registrations.

In 1987 all of the vegetable seed companies in Washington agreed to dispose of seed screenings by dumping. Also, the roots when seed is harvested are approximately the size of a pen, and woody, essentially inedible.

The 24(c) label for this product requires that all carrot seed treated with Capture 2 EC is to be tagged at the conditioning plant "Not for Human or Animal Consumption". Also, it states in part that screenings and seed from seed conditioning are prohibited from feed channels. All Capture 2 EC treated seed screenings must be removed from the feed market.

If you have any questions, you can contact me at (206) 753-5064.

Sincerely,

PESTICIDE MANAGEMENT DIVISION

Robin Schoen

Robin Schoen
Ag Chemical Specialist
Registration and Services

cc: Dick Maxwell, WSU
F. Clarke Brown, WSDA, Chief, Enforcement, Eastern, WA
Jeff R. Klundt, FMC Corp., Ag Chemical Group, Fresno, CA
Gary Pelter, WSU Extension, Grant County
Don Mayer, WSU Research, Prosser Exp. Station

C. ALAN PETTIBONE
Director

STATE OF WASHINGTON

DEPARTMENT OF AGRICULTURE

406 General Administration Bldg., AX-41 • Olympia, Washington 98504-0641 • (206) 753-5063

CERTIFIED

January 23, 1990

Mr. Jeff Klundt
Technical Service Representative
FMC Corporation
Ag Chemical Group
Box 1669
Fresno, CA 93717

RE: EPA Reg. No. WA900001

Dear Mr. Klundt:

Enclosed is Washington Special Local Need (SLN) registration number WA900001 issued to FMC Corporation for the use of Capture 2 EC in carrot varieties grown for seed. This registration was issued under authority of Section 24(c) of amended FIFRA.

Federally, this registration will not expire until some time in the future; however, it will be necessary for your company to renew registration annually in the state of Washington in order to continue its use.

A copy of the enclosed labeling must be presented to the purchaser at the time of purchase for this use. A copy should also be present at the site of application.

If you have any questions, please contact this office at (206) 753-5064.

Sincerely,

PESTICIDE MANAGEMENT DIVISION

Robin Schoen
Ag Chemical Investigator

cc: Richard Maxwell, WSU
F. Clarke Brown, WSDA

P-14
Rev. 2/82

U. S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDE PROGRAMS
REGISTRATION DIVISION (WH-567)
WASHINGTON, D. C. 20460

APPLICATION FOR/NOTIFICATION OF STATE REGISTRATION OF A PESTICIDE TO MEET A SPECIAL LOCAL NEED PURSUANT TO 40 CFR PART 162, SUBPART B AND SECTION 24 (C) OF THE FEDERAL INSECTICIDE FUNGICIDE, AND RODENTICIDE ACT, AS AMENDED

IMPORTANT: See reverse before completing/submitting this form.

FOR EPA USE ONLY	FOR STATE USE ONLY
90th Day	Registration Number Assigned: WA900001
[ ] Approved [ ] Disapproved Date _____	Date Registration was Issued: February 6, 1990
Federal Register Notice	Expiration Date: -

1. NAME AND ADDRESS OF APPLICANT FOR REGISTRATION
FMC CORPORATION
AGRI. CHEM. GROUP
P.O. BOX 1622
WALLA WALLA, WA. 99362

2. PRODUCT IS: (check one)
[ ] NEW (not EPA-registered)
[X] EPA-REGISTERED (give number)
EPA REG. NO. 279-3069

3. EPA COMPANY NUMBER: 279

4. EPA ESTABLISHMENT REGISTRATION NUMBER: 279-NJ-1

5. PRODUCT NAME
CAPTURE 2EC INSECTICIDE/MITICIDE

6. TYPE OF REGISTRATION: (give details in Item 11 or on a separate page, properly identified and attached to this form)
[X] a. To permit use of a new product.
[ ] b. To amend EPA registrations for one or more of the following purposes:
[ ] (1) To permit use on additional crops or animals.
[ ] (2) To permit use at additional sites.
[ ] (3) To permit use against additional pests.
[ ] (4) To permit use of additional application techniques or equipment.
[ ] (5) To permit use at different application rates.
[ ] (6) To prescribe special label directions for one or both of the following purposes:
[ ] (a) Preventing unreasonable adverse effects on man or the environment under local use conditions.
[ ] (b) Providing for local use conditions affecting pesticide efficacy.
[ ] c. To serve other purposes.

7. NATURE OF SPECIAL LOCAL NEED: (check one)
[ ] a. There is no pesticide product registered by EPA for such use.
[X] b. There is no EPA-registered pesticide product which, under the conditions of use within the State, would be as safe and/or as efficacious for such use within the terms and conditions of EPA registration.
[ ] c. An appropriate EPA-registered pesticide product is not available.

8. IF THIS IS A FOOD/FEED USE REQUIRING TOLERANCES OR OTHER RESIDUE CLEARANCES, CITE APPROPRIATE REGULATIONS IN 40 CFR 180, 21 CFR 123, AND/OR 21 CFR 561.

9. IS THIS REGISTRATION FOR A "CHANGED USE PATTERN" AS DEFINED IN 40 CFR 162.152(c)?
[X] NO [ ] YES

10. HAS AN EPA REGISTRATION OF, OR EXPERIMENTAL USE PERMIT FOR THE PRODUCT EVER BEEN SOUGHT, ISSUED, DENIED, CANCELED, OR SUSPENDED?
[ ] NO [X] YES

12. HAS A REGISTRATION OF THE PRODUCT (UNDER SECTION 24(c)) EVER BEEN SOUGHT FROM, OR DENIED OR REVOKED BY, ANOTHER STATE?
[ ] NO [X] YES

11. COMMENTS
CAPTURE IS VERY EFFICACOUS ON LYGUS BUGS AND OTHER IMPORTANT ECONOMIC PESTS IN CARROT SEED. THE OLD PRODUCTS HAVE BECOME INEFFECTIVE OR HAVE DROPPED THEIR LABELS FOR THIS CROP.

SIGNATURE OF APPLICANT OR AUTHORIZED REPRESENTATIVE
Jeff R. Klundt
JEFF R. KLUNDT

TITLE: TECHNICAL SERVICE REPRESENTATIVE

TELEPHONE: 509-529-5950

DATE: 1-2-90

DETERMINATION BY STATE AGENCY

This registration is related to a Special Local Need, as defined in 40 CFR 162.152(k), and is being issued in accordance with the approved State Plan and the Regulations at 40 CFR Part 162 Subpart B. To the best of our knowledge, the information above is correct, except as noted in COMMENTS below or in attachments.

COMMENTS (BY STATE AGENCY ONLY)
Department of Agriculture
406 General Administration Bldg. AX-41
Olympia, WA 98504

RECEIVED BY EPA-OPP, REGISTRATION DIVISION, WASHINGTON, D. C. 20460

NAME AND TITLE OF STATE AGENCY OFFICIAL: Robin Schoen, Ag Chemical Specialist

TELEPHONE NUMBER: 206-753-5064

SIGNATURE OF STATE AGENCY OFFICIAL: Robin Schoen

DATE: February 6, 1990

Capture® 2 EC
Insecticide/Miticide

EPA Reg. No. 279-3069

RESTRICTED USE PESTICIDE
Toxic to fish and aquatic organisms.
For retail sale to and use only by certified applicators, or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

FOR DISTRIBUTION AND USE ONLY WITHIN WASHINGTON

EPA SLN NO. WA-900001

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER IN CONSISTENT WITH ITS LABELING.

CROP: CARROTS GROWN FOR SEED (HYBRID OR OPEN POLLINATED)

PESTS: LYGUS BUGS, APHIDS, AND SPIDER MITES.

DIRECTIONS FOR USE:

To control Lygus Bugs, Aphids, and Spider Mites apply Capture 2 EC at the rate of 3.9 to 6.4 ounces per acre (0.06 to 0.1 pound active ingredient). Apply in a minimum of 8 gallons of water per acre by air or in a minimum of 20 gallons of water per acre by ground.

Capture 2 EC may be used only in the prebloom or post-bloom period. Bees, used for pollination, should not be introduced into the field within 5 days of the prebloom application. Bees, used for pollination, must be removed from the field before a post-bloom application is made.

RESTRICTIONS: Do not apply Capture 2 EC or allow it to drift to blooming crops or weeds while bees are actively foraging in the treatment area.

Do not graze current year's treated seed crop.

All Carrot Seed treated with Capture 2 EC is to be tagged at the conditioning plant "Not for Human or Animal Consumption". It shall be the growers responsibility to notify the conditioning plant of any seed crop treated with Capture 2 EC.

Screenings and seed from seed conditioning are prohibited from feed channels. All Capture 2 EC treated seed screenings must be removed from the feed market.

ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL ARE TO BE FOLLOWED.
REFER TO THE EPA REGISTERED LABEL FOR INFORMATION ON CHEMIGATION.
THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

FMC CORPORATION
Agricultural Chemical Group
P.O. Box 1669
Fresno, CA 93717

24(c) Registrant:

FMC

©1988 FMC Corporation.
FMC® is a registered trademark of FMC Corporation.

Code 777

Code 777

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

Net Contents

Capture® 2 EC

Insecticide/Miticide

EPA Reg. No. 279-3069 **EPA Est. 279-**

Active Ingredient:	**By Wt.**
Bifenthrin, (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*	25.1%
Inert Ingredients:**	74.9%
	100.00%

*Cis isomers 97% minimum, trans isomers 3% maximum.
**Contains xylene range aromatic solvents.

This product contains 2 pounds active ingredient per gallon.

U.S. Patent No. 4,238,505

KEEP OUT OF REACH OF CHILDREN

WARNING

This label must be in the possession of the user at the time of application.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Get medical attention. Call a Poison Control Center or physician promptly for advice. Describe Precautionary Statements and Note to Physician to medical. Do not induce vomiting unless advised by a physician or qualified medical advisor. Do not give anything by mouth to an unconscious person.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on Skin: Wash with plenty of soap and water. Get medical attention.

If in Eyes: Flush with plenty of water. Call a physician if irritation persists.

Note to Physician:
Pesticide Hotline (800) 858-7378. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

For Emergency Assistance call 716-735-3765

See other panels for additional precautionary information.

FMC

FMC Corporation
Agricultural Chemical Group
Philadelphia PA 19103

8/88

PRECAUTIONARY STATEMENTS
Hazards to Humans (and Domestic Animals)

Warning
May be fatal if swallowed. Harmful if inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash contaminated clothing before reuse.

Applicators must wear long sleeve shirt and trousers. Mixers and loaders must wear long sleeve shirt, trousers, chemical resistant gloves, and goggles or face shield.

Environmental Hazards

Do not contaminate water while disposing of equipment washwater. This pesticide is very highly toxic to fish and other aquatic organisms. Do not apply directly to lakes, streams, ponds or wetlands. Do not apply when weather conditions will produce drift from the treatment site, especially towards aquatic habitats. The product is highly toxic to bees exposed to direct treatment or to blooming crops or weeds. Do not apply this product or allow drift to blooming crops or weeds while bees are actively visiting the treatment area.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Reentry Statements

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for crops treated with this product, consult your State Department of Agriculture for further information.

Chemigation Use Directions

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Capture® 2 EC insecticide/miticide should be applied continuously for the duration of the water application. Capture 2 EC should be diluted in sufficient volume to insure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended. Agitation is not required when a suitable diluent is used.

STORAGE AND DISPOSAL

Pesticide Storage

Do not freeze. Do not store below 40° F. If crystals are observed, warm material to above 60° F by placing container in warm location. Shake or roll container periodically to redissolve solids.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. *Carefully open containers. After partial use, replace lids and close* tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC collect: (716) 735-3765.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

Metal or Plastic Container: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

U-Turn® Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

ENDANGERED SPECIES RESTRICTIONS

This product may pose a hazard to endangered aquatic species. Do not apply this product within 100 yards of aquatic habitat in the following counties:

Alabama
Colbert, Greene, Jackson, Lamar, Lauderdale, Limestone, Madison, Marshall, Morgan, Pickens and Sumter

Arizona
Graham, Maricopa, Mohave, Pima, Pinal and Santa Cruz

Arkansas
Benton, Clay, Clark, Cross, Lawrence, Lee, Poinsette, Polk, Randolph, Sharp and St. Francis

California
Butte, Colusa, Glenn, Imperial, Kern, Merced, Modoc, Riverside, Sacramento, Solano, Sutter, Tehema and Yolo

Florida
Broward, Dade, Glades and Palm Beach

Kentucky
Ballard, Butler, Edmundson, Green, Hart, Jackson, Laurel, Livingston, Marshall, McCracken, McCreary, Pulaski, Rockcastle, Taylor, Warren and Wayne

Mississippi
Claiborne, Copiah, Hinds, Itawamba, Lowndes, Monroe and Noxubee

Missouri
Barry, Benton, Camden, Christian, Dallas, Greene, Hickory, Jasper, Lawrence, Miller, Newton, Osage, Polk, St. Clair, Stone and Webster

Nevada
Clark

New Mexico
Chaves, Debaca and Eddy

North Carolina
Edgecombe, Nash and Pitt

Ohio
Pickaway

Oklahoma
Delaware, McCurtain and Pushmataha

Oregon
Lake

Tennessee
Bedford, Blount, Claiborne, Decatur, Franklin, Hancock, Hardin, Hickman, Knox, Lawrence, Lincoln, Loudon, Marshall, Maury, Meigs, Monroe, Rhea, Roane, Scott, Sequatchie, Smith, Sullivan and Wayne

Texas
Bastrop, Burleson, Comal, Harris, Hays, Jeff Davis, Pecos and Reeves

Utah
Utah and Washington

Virginia
Lee, Russell, Scott, Smyth, Tazewell, Washington and Wise

Special Equipment

Capture 2 EC should be mixed and loaded using systems that comply with accepted standards that identify a closed mixing-loading system. That system should be designed and operated in such a manner to minimize human exposure to the formulated product or the mixed spray solution of Capture. Follow State directions for closed systems. For more details, contact your State Extension Service.

Application Instructions

Rate of application is variable according to pest pressure, timing of sprays, and field scouting. Use lower rates under light to moderate infestations; higher rates under heavy insect pressure and for mite control. Arid climates generally require higher rates.

Crop	Pest	Dosage: Pound Active Per Acre	Dosage: Ounces 2 EC Per Acre	Remarks
Cotton	European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	0.02-0.1	1.3-6.4	Capture 2 EC may be applied in water or refined vegetable oil (soybean/cottonseed). Application in Water: Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray. ULV Application: Apply the recommended rate of Capture 2 EC in refined vegetable oil in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage. To Control Boll Weevil: Apply Capture 2 EC at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels.
	Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Lygus Spp. Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm Whitefly Yellow Striped Armyworm	0.04-0.1	2.6-6.4	
	Carmine Spider Mite Twospotted Spider Mite Beet Armyworm Pink Bollworm	0.06-0.1	3.8-6.4	To Control Mites and Aphids: Apply when pests first appear. Repeat as necessary to maintain control. Higher rates will be required once a damaging threshold is established.

Do not apply more than 0.5 pound active per acre per season.

Do not apply within 14 days of harvest.

Do not graze livestock in treated areas or cut treated crops for feed.

Rotational Crops

Rotational crops may be planted no sooner than 30 days after last application. Straw may not be used for food or feed.

Tank-Mixture

Capture 2 EC insecticide/miticide may be applied in tank-mixtures with other products approved for use on cotton. Observe all restrictions and precautions which appear on the labels of these products.

Dealers Should Sell in Original Packages Only.

Terms of Sale or Use: On purchase of this product buyer and user agree to the following conditions:

Warranty: FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and or handling and/or storage of this material when such use and or handling and/or storage is contrary to label instructions.

Directions and Recommendations: Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

Use of Product: FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

Damages: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

U-Turn, Capture and FMC—FMC Trademarks
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(777-8/5/88-A)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C.

NOV 29 1985

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

Mr. Art G. Losey
Assistant Director
Chemical and Plant Division
Washington Department of Agriculture
406 General Administration Bldg. AX-41
Olympia, Washington 98504

Dear Mr. Losey:

Over the past year, you have requested EPA reconsideration of its policy regarding the issuance of 24(c) registrations for seed crops. That policy, as currently stated, is to require tolerances except when it can be demonstrated that there would be no residues in crops grown from the harvested seed, and when the crop is not fit for human or livestock consumption at the time of pesticide treatment.

The issue in your case was whether two year crops, which are clearly not suitable for human or livestock consumption by the end of the second year, are ever diverted after the first year for human or livestock use. If they were, and they were treated with a pesticide during the first year, they would have to demonstrate no residues in the diverted crops, or establish a tolerance to cover residues in the diverted crops, before a 24(c) registration could be issued.

However, in June we notified you that, if we could be satisfied that no crop was diverted for food or feed use after the first year, then the pesticides in question would be eligible for 24(c) registrations. Confirmatory information has since been received and reviewed. We are now able to make the following determination:

1. Seed uses on carrots, spinach, collards, cabbage, lettuce, brussel sprouts, cauliflower, kohlrabi, turnips, Swiss chard, and beets can be considered non-food uses under 24(c) registrations. However, applications for such uses should contain rationale for why these are non-food uses. Also, the information which the State submits to EPA regarding

the 24(c) application needs to contain assurances from the State that the seed crop will not be diverted to food or feed.

2. You requested EPA to consider the non-food use status of seeds from other crops as well. For the following crops, additional information is needed before a determination on their non-food status can be made. The crops, and the issues which still need to be resolved, are as follows:

-- Dill, caraway, coriander: How is dill or any spice grown for seed different than dill grown to be sold as a spice?

-- Parsley: How is parsley grown for seed different than parsley grown for leaves?

-- Kale: If some seeds are diverted to feed as "cow kale", this cannot be considered a non-food use.

-- Radish: Daikon radish seeds are used for sprouting and cannot be considered a non-food use. Since radishes grown for seed are planted in the spring, what is the difference between the food and seed crop before reaching the edible stage?

-- Onion and leek: What assurances can be provided to EPA that non-bulb onions will not be harvested out of seed fields?

Once answers to these questions are received, we will consider whether these crops can also be considered non-food crops under 24(c) registrations.

If you have any questions regarding this policy, please call Jan Auerbach at (703) 557-0592.

Sincerely,

Douglas D. Campt, Director
Registration Division

cc: Phil Gray
L.O. Nelson
Charles Trichilo
Gary O'Neal
RD Product Branch Chiefs
RD PMs

24(c) CHECKLIST

STATE: Washington	SLN No. WA-90-0001
DATE REGISTERED: 02-06-90	90-DAY DATE: 5-6-90
SPECIFIC SPECIAL LOCAL NEED: ____	SITE: ____
____	PEST/PROBLEM: ____

.. Is the State certified to issue this type of registration? ____

!. Was the EPA Application/Notification Form submitted? ____

. [illegible]as all the required information included on the form? ____

. Was a confidential formula submitted (for new products)? ____

. [illegible] this registration for a "CHANGED USE PATTERN"? ____

. Has an FR document been prepared for this "CHANGED USE PATTERN"? ____

Federal Register publication date: ____

. Tolerances required? ____ Established? ____ Citation: ____

. Full labeling being used? ____ Supplemental directions? ____

. Does label state "FOR DISTRIBUTION AND USE ONLY WITHIN (State)? ____

). [illegible]es full label comply with 40 CFR 162.10, as follows:

a. Product name, brand or trademark? ____
b. Name and address of registrant? ____
c. Net contents? ____
d. Product registration number? ____
e. Producing establishment number? ____
f. Ingredient statement? ____
g. Precautionary labeling? ____
h. Directions for use for special local need? ____
i. Use classification? ____

[illegible] Was proper format followed? ____

. Is supplemental directions for use labeling satisfactory? ____

. Was supplemental labeling compared with EPA-registered label? ____

MMENTS: ____

CODING FORM FOR SPECIAL LOCAL NEED [24(c)] REGISTRATIONS

1. SLN No. WA90-0001 2. PM _____ 3. Action Code _____

4. State Issue Date
| 0 | 2 | 0 | 6 | 9 | 0 |

5. Date received by EPA
| 0 | 2 | 1 | 3 | 9 | 0 |

6. Date received by PM
| | | | | | |

7. Chemical name _____

8. Chemical code _____

9. Use _____

10. Reviews requested:

	Date Sent	Due Date	Date Returned	Response Code	Response Date
IED					
EFB					
RCB					
EEB					
TB					
RD					
PM					
TSS					
recaut. Labeling					
Chemistry					
Efficacy					
_____					
_____					

11. Status _____

12. FINAL ACTION: Response code _____

Response date | | | | | | |

FMC Corporation

Agricultural Chemical Group
2000 Market Street
Philadelphia Pennsylvania 19103
215 299 6000

FOR REFERENCE

Inert ingredient information may be entitled to confidential treatment

FMC

Product ingredient source information may be entitled to confidential treatment

January 31, 1989

Mr. George T. LaRocca (PM-15)
U.S. Environmental Protection Agency
Office of Pesticide Programs
Registration Division (TS-767-C)
Crystal Mall, Building No. 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Dear Mr. LaRocca:

Subject: Capture[R] 2 EC insecticide/miticide
EPA Registration No. 279-3069

CONFIDENTIAL BUSINESS INFORMATION

We have modified the formula for Capture 2 EC to clarify the nominal concentrations of the [redacted] emulsifiers and to include the solvent [redacted]

In accordance with 40 CFR 152.46, we are hereby notifying the Agency of this modification to the subject product's formula. For your records please find enclosed a revised Confidential Statement of Formula and certification statement.

If you have any questions concerning this action, please call. My telephone number is 215/299-6999.

Sincerely,

Eunice M. Cuirle

Eunice M. Cuirle
Senior Registration Specialist

CSF 777

FMC Corporation

Agricultural Chemical Group
2000 Market Street
Philadelphia, Pennsylvania 19103
215 299 6000

FMC

CERTIFICATION STATEMENT

I hereby certify that, for purposes of FIFRA Sec. 12(a)(1)(C), the description of the composition of Capture 2 EC, EPA Reg. No. 279-3069, refers to the composition set forth on the Statement of Formula and supporting materials. This description includes the representations that (1) no ingredient will be present in the product in an amount greater than the upper certified limit or in an amount less that the lower certified limit (if required) specified for that ingredient in a currently approved Statement of Formula (or as calculated by the Agency); and (2) if the Agency requires that the source of supply of an ingredient be specified, that all quantities of such ingredient will be obtained from the source specified in the Statement of Formula.

Eunice M. Cuirle

Eunice M. Cuirle
Senior Registration Specialist

January 31, 1989

Please read instructions and notice on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval expires 6-30-90.

United States Environmental Protection Agency
Office of Pesticide Programs (TS-767)
Washington, DC 20460

EPA

Application for Pesticide: [ ] Registration [x] Amendment

OPP Identifier Number 124815

Section I

1. Company/Product Number	2. Date	3. Product Manager	4. Proposed Classification
279-3069	January 31, 1989	GT LaRocca (PM-15)	[ ] General [ ] Restricted

5. Name and Address of Applicant *(Include ZIP Code)*

FMC Coporation
Agricultural Chemical Group
2000 Market Street
Philadelphia, PA 19103

ATTN: Eunice M. Cuirle

[ ] Check if this is a new address

6. Product Name

Capture 2 ECinsecticide/miticide

Section II - Amendment Information

1. Subject

[ ] Resubmission in response to Agency letter [ ] Final printed label in response to Agency letter [x] Other *(explain below)*

Date of Letter

1. Clarify the concentrations of the emulsifiers

2. Include the solvent [redacted]

Inert ingredient information may be entitled to confidential treatment

Section III

1. Material This Product Will Be Packaged In

Child-Resistant Packaging	Unit Packaging	Water-Soluble Packaging
[ ] Yes [ ] No	[ ] Yes [ ] No	[ ] Yes [ ] No
	If "Yes," Unit package wgt / No. per container	If "Yes," Package weight / No. per container

2. Type of Container

[ ] Metal
[ ] Plastic
[ ] Glass
[ ] Paper
[ ] Other *(Specify)*

3. Location of Net Contents Information

[ ] Label [ ] Container

4. Size(s) of Retail Container

5. Location of Label Directions

[ ] On Label
[ ] On material accompanying product

6. Manner in Which Label Is Affixed To Product

[ ] Lithograph [ ] Other *(Specify)*
[ ] Paper glued
[ ] Stenciled

Section IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application).*

Name

Eunice M. Cuirle

Title	Telephone No. *(Include Area Code)*	6. Date Application Received *(Stamped)*
Senior Registration Specialist	215/299-6999	

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature	3. Title
Eunice M. Cuirle	Senior Registration Specialist
4. Typed Name	**5. Date Signed**
Eunice M. Cuirle	January 31, 1989

EPA Form 8570-1 (Rev. 9-88) Previous editions are obsolete.

Pages 40-43 - *Confidential Statements of Formula may be entitled to confidential treatment*

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Code 777

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

Net Contents

Capture® 2 EC

Insecticide/Miticide

EPA Reg. No. 279-3069 **EPA Est. 279-**

Active Ingredient:	**By Wt.**
Bifenthrin, (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*	25.1%
Inert Ingredients:**	74.9%
	100.00%

*Cis isomers 97% minimum, trans isomers 3% maximum.
**Contains xylene range aromatic solvents.

This product contains 2 pounds active ingredient per gallon.

U.S. Patent No. 4,238,505

KEEP OUT OF REACH OF CHILDREN

WARNING

This label must be in the possession of the user at the time of application.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Get medical attention. Call a Poison Control Center or physician promptly for advice. Describe Precautionary Statements and Note to Physician on this label. Do not induce vomiting unless advised by a physician or qualified medical advisor. Do not give anything by mouth to an unconscious person.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on Skin: Wash with plenty of soap and water. Get medical attention.

If in Eyes: Flush with plenty of water. Call a physician if irritation persists.

Note to Physician:
Pesticide Hotline (800) 858-7378. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

For Emergency Assistance call 716-735-3765

See other panels for additional precautionary information.

FMC

FMC Corporation
Agricultural Chemical Group
Philadelphia PA 19103

8/88

PRECAUTIONARY STATEMENTS
Hazards to Humans (and Domestic Animals)

Warning
May be fatal if swallowed. Harmful if inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash contaminated clothing before reuse.

Applicators must wear long sleeve shirt and trousers. Mixers and loaders must wear long sleeve shirt, trousers, chemical resistant gloves, and goggles or face shield.

Environmental Hazards
Do not contaminate water while disposing of equipment washwater. This pesticide is very highly toxic to fish and other aquatic organisms. Do not apply directly to lakes, streams, ponds or wetlands. Do not apply when weather conditions will produce drift from the treatment site, especially towards aquatic habitats. The product is highly toxic to bees exposed to direct treatment or blooming crops or weeds. Do not apply this product or allow drift to blooming crops or weeds while bees are actively visiting the treatment area.

Physical/Chemical Hazards
Do not use or store near heat or open flame.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Reentry Statements
Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for crops treated with this product, consult your State Department of Agriculture for further information.

Chemigation Use Directions
Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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Pesticide Storage
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Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC collect: (716) 735-3765.

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Arizona
Graham, Maricopa, Mohave, Pima, Pinal and Santa Cruz
Arkansas
Benton, Clay, Clark, Cross, Lawrence, Lee, Poinsette, Polk, Randolph, Sharp and St. Francis
California
Butte, Colusa, Glenn, Imperial, Kern, Merced, Modoc, Riverside, Sacramento, Solano, Sutter, Tehema and Yolo
Florida
Broward, Dade, Glades and Palm Beach
Kentucky
Ballard, Butler, Edmundson, Green, Hart, Jackson, Laurel, Livingston, Marshall, McCracken, McCreary, Pulaski, Rockcastle, Taylor, Warren and Wayne
Mississippi
Claiborne, Copiah, Hinds, Itawamba, Lowndes, Monroe and Noxubee
Missouri
Barry, Benton, Camden, Christian, Dallas, Greene, Hickory, Jasper, Lawrence, Miller, Newton, Osage, Polk, St. Clair, Stone and Webster
Nevada
Clark
New Mexico
Chaves, Debaca and Eddy
North Carolina
Edgecombe, Nash and Pitt
Ohio
Pickaway
Oklahoma
Delaware, McCurtain and Pushmataha
Oregon
Lake
Tennessee
Bedford, Blount, Claiborne, Decatur, Franklin, Hancock, Hardin, Hickman, Knox, Lawrence, Lincoln, Loudon, Marshall, Maury, Meigs, Monroe, Rhea, Roane, Scott, Sequatchie, Smith, Sullivan and Wayne
Texas
Bastrop, Burleson, Comal, Harris, Hays, Jeff Davis, Pecos and Reeves
Utah
Utah and Washington
Virginia
Lee, Russell, Scott, Smyth, Tazewell, Washington and Wise

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	Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Lygus Spp. Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm Whitefly Yellow Striped Armyworm	0.04-0.1	2.6-6.4	
	Carmine Spider Mite Twospotted Spider Mite Beet Armyworm Pink Bollworm	0.06-0.1	3.8-6.4	To Control Mites and Aphids: Apply when pests first appear. Repeat as necessary to maintain control. Higher rates will be required once a damaging threshold is established.

Do not apply more than 0.5 pound active per acre per season.

Do not apply within 14 days of harvest.

Do not graze livestock in treated areas or cut treated crops for feed.

Rotational Crops

Rotational crops may be planted no sooner than 30 days after last application. Straw may not be used for food or feed.

Tank-Mixture

Capture 2 EC insecticide/miticide may be applied in tank-mixtures with other products approved for use on cotton. Observe all restrictions and precautions which appear on the labels of these products.

Dealers Should Sell in Original Packages Only.

Terms of Sale or Use: On purchase of this product buyer and user agree to the following conditions:

Warranty: FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

Directions and Recommendations: Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

Use of Product: FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

Damages: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

U-Turn, Capture and FMC—FMC Trademarks
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(777-8/5/88-A)

Capture® 2 EC
Insecticide/Miticide

EPA Reg. No. 279-3069

RESTRICTED USE PESTICIDE
Toxic to fish and aquatic organisms.
For retail sale to and use only by certified applicators, or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

FOR DISTRIBUTION AND USE ONLY WITHIN WASHINGTON

EPA SLN NO. WA-900001

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER IN CONSISTENT WITH ITS LABELING.

CROP: CARROTS GROWN FOR SEED (HYBRID OR OPEN POLLINATED)

PESTS: LYGUS BUGS, APHIDS, AND SPIDER MITES.

DIRECTIONS FOR USE:

To control Lygus Bugs, Aphids, and Spider Mites apply Capture 2 EC at the rate of 3.9 to 6.4 ounces per acre (0.06 to 0.1 pound active ingredient). Apply in a minimum of 8 gallons of water per acre by air or in a minimum of 20 gallons of water per acre by ground.

Capture 2 EC may be used only in the prebloom or post-bloom period. Bees, used for pollination, should not be introduced into the field within 5 days of the prebloom application. Bees, used for pollination, must be removed from the field before a post-bloom application is made.

RESTRICTIONS: Do not apply Capture 2 EC or allow it to drift to blooming crops or weeds while bees are actively foraging in the treatment area.

Do not graze current year's treated seed crop.

All Carrot Seed treated with Capture 2 EC is to be tagged at the conditioning plant "Not for Human or Animal Consumption". It shall be the growers responsibility to notify the conditioning plant of any seed crop treated with Capture 2 EC.

Screenings and seed from seed conditioning are prohibited from feed channels. All Capture 2 EC treated seed screenings must be removed from the feed market.

ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL ARE TO BE FOLLOWED.
REFER TO THE EPA REGISTERED LABEL FOR INFORMATION ON CHEMIGATION.
THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

FMC CORPORATION
Agricultural Chemical Group
P.O. Box 1669
Fresno, CA 93717

24(c) Registrant:

FMC

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FMC® is a registered trademark of FMC Corporation.

Code 777

P-14
Rev. 2/82

U. S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDE PROGRAMS
REGISTRATION DIVISION (WH-567)
WASHINGTON, D. C. 20460

APPLICATION FOR/NOTIFICATION OF STATE REGISTRATION OF A PESTICIDE TO MEET A SPECIAL LOCAL NEED PURSUANT TO 40 CFR PART 162, SUBPART B AND SECTION 24 (C) OF THE FEDERAL INSECTICIDE FUNGICIDE, AND RODENTICIDE ACT, AS AMENDED

IMPORTANT: See reverse before completing/submitting this form.

FOR EPA USE ONLY	FOR STATE USE ONLY
90th Day	Registration Number Assigned: WA900001
[ ] Approved [ ] Disapproved Date _____	Date Registration was Issued: February 6, 1990
Federal Register Notice	Expiration Date: -

1. NAME AND ADDRESS OF APPLICANT FOR REGISTRATION
FMC CORPORATION
AGRI. CHEM. GROUP
P.O. BOX 1622
WALLA WALLA, WA. 99362

2. PRODUCT IS: (check one)
[ ] NEW (not EPA-registered)
[X] EPA-REGISTERED (give number)
EPA REG. NO. 279-3069

3. EPA COMPANY NUMBER: 279

4. EPA ESTABLISHMENT REGISTRATION NUMBER: 279-NJ-1

5. PRODUCT NAME
CAPTURE 2EC INSECTICIDE/MITICIDE

6. TYPE OF REGISTRATION: (give details in Item 11 or on a separate page, properly identified and attached to this form)
[X] a. To permit use of a new product.
[ ] b. To amend EPA registrations for one or more of the following purposes:
[ ] (1) To permit use on additional crops or animals.
[ ] (2) To permit use at additional sites.
[ ] (3) To permit use against additional pests.
[ ] (4) To permit use of additional application techniques or equipment.
[ ] (5) To permit use at different application rates.
[ ] (6) To prescribe special label directions for one or both of the following purposes:
[ ] (a) Preventing unreasonable adverse effects on man or the environment under local use conditions.
[ ] (b) Providing for local use conditions affecting pesticide efficacy.
[ ] c. To serve other purposes.

7. NATURE OF SPECIAL LOCAL NEED: (check one)
[ ] a. There is no pesticide product registered by EPA for such use.
[X] b. There is no EPA-registered pesticide product which, under the conditions of use within the State, would be as safe and/or as efficacious for such use within the terms and conditions of EPA registration.
[ ] c. An appropriate EPA-registered pesticide product is not available.

8. IF THIS IS A FOOD/FEED USE REQUIRING TOLERANCES OR OTHER RESIDUE CLEARANCES, CITE APPROPRIATE REGULATIONS IN 40 CFR 180, 21 CFR 123, AND/OR 21 CFR 561.

9. IS THIS REGISTRATION FOR A "CHANGED USE PATTERN" AS DEFINED IN 40 CFR 162.152(c)?
[X] NO [ ] YES

10. HAS AN EPA REGISTRATION OF, OR EXPERIMENTAL USE PERMIT FOR THE PRODUCT EVER BEEN SOUGHT, ISSUED, DENIED, CANCELED, OR SUSPENDED?
[ ] NO XX YES

12. HAS A REGISTRATION OF THE PRODUCT (UNDER SECTION 24(c)) EVER BEEN SOUGHT FROM, OR DENIED OR REVOKED BY, ANOTHER STATE?
[ ] NO XX YES

11. COMMENTS
CAPTURE IS VERY EFFICACOUS ON LYGUS BUGS AND OTHER IMPORTANT ECONOMIC PESTS IN CARROT SEED. THE OLD PRODUCTS HAVE BECOME INEFFECTIVE OR HAVE DROPPED THEIR LABELS FOR THIS CROP.

SIGNATURE OF APPLICANT OR AUTHORIZED REPRESENTATIVE
Jeff R. Klundt
JEFF R. KLUNDT

TITLE: TECHNICAL SERVICE REPRESENTATIVE

TELEPHONE: 509-529-5950

DATE: 1-2-90

DETERMINATION BY STATE AGENCY

This registration is related to a Special Local Need, as defined in 40 CFR 162.152(k), and is being issued in accordance with the approved State Plan and the Regulations at 40 CFR Part 162 Subpart B. To the best of our knowledge, the information above is correct, except as noted in COMMENTS below or in attachments.

COMMENTS (BY STATE AGENCY ONLY)
Department of Agriculture
406 General Administration Bldg. AX-41
Olympia, WA 98504

RECEIVED BY EPA-OPP, REGISTRATION DIVISION, WASHINGTON, D. C. 20460

NAME AND TITLE OF STATE AGENCY OFFICIAL: Robin Schoen, Ag Chemical Specialist

TELEPHONE NUMBER: 206-753-5064

SIGNATURE OF STATE AGENCY OFFICIAL: Robin Schoen

DATE: February 6, 1990

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C.

NOV 29 1985

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

Mr. Art G. Losey
Assistant Director
Chemical and Plant Division
Washington Department of Agriculture
406 General Administration Bldg. AX-41
Olympia, Washington 98504

Dear Mr. Losey:

Over the past year, you have requested EPA reconsideration of its policy regarding the issuance of 24(c) registrations for seed crops. That policy, as currently stated, is to require tolerances except when it can be demonstrated that there would be no residues in crops grown from the harvested seed, and when the crop is not fit for human or livestock consumption at the time of pesticide treatment.

The issue in your case was whether two year crops, which are clearly not suitable for human or livestock consumption by the end of the second year, are ever diverted after the first year for human or livestock use. If they were, and they were treated with a pesticide during the first year, they would have to demonstrate no residues in the diverted crops, or establish a tolerance to cover residues in the diverted crops, before a 24(c) registration could be issued.

However, in June we notified you that, if we could be satisfied that no crop was diverted for food or feed use after the first year, then the pesticides in question would be eligible for 24(c) registrations. Confirmatory information has since been received and reviewed. We are now able to make the following determination:

1. Seed uses on carrots, spinach, collards, cabbage, lettuce, brussel sprouts, cauliflower, kohlrabi, turnips, Swiss chard, and beets can be considered non-food uses under 24(c) registrations. However, applications for such uses should contain rationale for why these are non-food uses. Also, the information which the State submits to EPA regarding

the 24(c) application needs to contain assurances from the State that the seed crop will not be diverted to food or feed.

2. You requested EPA to consider the non-food use status of seeds from other crops as well. For the following crops, additional information is needed before a determination on their non-food status can be made. The crops, and the issues which still need to be resolved, are as follows:

-- Dill, caraway, coriander: How is dill or any spice grown for seed different than dill grown to be sold as a spice?

-- Parsley: How is parsley grown for seed different than parsley grown for leaves?

-- Kale: If some seeds are diverted to feed as "cow kale", this cannot be considered a non-food use.

-- Radish: Daikon radish seeds are used for sprouting and cannot be considered a non-food use. Since radishes grown for seed are planted in the spring, what is the difference between the food and seed crop before reaching the edible stage?

-- Onion and leek: What assurances can be provided to EPA that non-bulb onions will not be harvested out of seed fields?

Once answers to these questions are received, we will consider whether these crops can also be considered non-food crops under 24(c) registrations.

If you have any questions regarding this policy, please call Jan Auerbach at (703) 557-0592.

Sincerely,

Douglas D. Campt, Director
Registration Division

cc: Phil Gray
L.O. Nelson
Charles Trichilo
Gary O'Neal
RD Product Branch Chiefs
RD PMs

C. ALAN PETTIBONE
Director

STATE OF WASHINGTON

DEPARTMENT OF AGRICULTURE

406 General Administration Bldg., AX-41 • Olympia, Washington 98504-0641 • (206) 753-5063

CERTIFIED

January 23, 1990

Environmental Protection Agency
Process Coordination Section
Registration Division (TS-767)
401 "M" Street S.W.
Washington, D.C. 20460

RE: EPA SLN REG. NO. WA90001

Enclosed is Washington Special Local Need registration number WA90001 issued to FMC Corporation for the use of Capture 2 EC in carrot varieties grown for seed. This registration was issued under authority of Section 24(c) of amended FIFRA.

This product extends the options available for lygus and mite control in a minor use crop. Carrot seed and carrot seed screenings are prohibited from food or feed use in Washington State.

I have enclosed a letter from Douglas Campt to Art Losey in which EPA considers the seed uses on carrots acceptable as a non-food use under 24(c) registrations.

In 1987 all of the vegetable seed companies in Washington agreed to dispose of seed screenings by dumping. Also, the roots when seed is harvested are approximately the size of a pen, and woody, essentially inedible.

The 24(c) label for this product requires that all carrot seed treated with Capture 2 EC is to be tagged at the conditioning plant "Not for Human or Animal Consumption". Also, it states in part that screenings and seed from seed conditioning are prohibited from feed channels. All Capture 2 EC treated seed screenings must be removed from the feed market.

If you have any questions, you can contact me at (206) 753-5064.

Sincerely,

PESTICIDE MANAGEMENT DIVISION

Robin Schoen

Robin Schoen
Ag Chemical Specialist
Registration and Services

cc: Dick Maxwell, WSU
F. Clarke Brown, WSDA, Chief, Enforcement, Eastern, WA
Jeff R. Klundt, FMC Corp., Ag Chemical Group, Fresno, CA
Gary Pelter, WSU Extension, Grant County
Don Mayer, WSU Research, Prosser Exp. Station

C. ALAN PETTIBONE
Director

STATE OF WASHINGTON

DEPARTMENT OF AGRICULTURE

406 General Administration Bldg., AX-41 • Olympia, Washington 98504-0641 • (206) 753-5063

CERTIFIED

January 23, 1990

Mr. Jeff Klundt
Technical Service Representative
FMC Corporation
Ag Chemical Group
Box 1669
Fresno, CA 93717

RE: EPA Reg. No. WA900001

Dear Mr. Klundt:

Enclosed is Washington Special Local Need (SLN) registration number WA900001 issued to FMC Corporation for the use of Capture 2 EC in carrot varieties grown for seed. This registration was issued under authority of Section 24(c) of amended FIFRA.

Federally, this registration will not expire until some time in the future; however, it will be necessary for your company to renew registration annually in the state of Washington in order to continue its use.

A copy of the enclosed labeling must be presented to the purchaser at the time of purchase for this use. A copy should also be present at the site of application.

If you have any questions, please contact this office at (206) 753-5064.

Sincerely,

PESTICIDE MANAGEMENT DIVISION

Robin Schoen
Ag Chemical Investigator

cc: Richard Maxwell, WSU
F. Clarke Brown, WSDA